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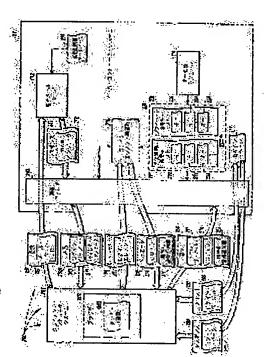   SIMPSON RUSSELL LEE JR
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(54) SECURE PROCESSING OF CLIENT CREDENTIALS USED FOR WEB-BASED ACCESS TO RESOURCE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide secure processing of client credentials used for Web-based access to resources.

SOLUTION: A login page with an interface for entering user credentials is presented at a client and the entered user credentials are sent to a server. In response to receiving the user credentials, the server generates a unique session ID for the client. The server also derives a digital signature for the user credentials based on a current key in a rotating key store and the unique session ID. The server then encrypts the digital signature and the user credentials based on an encryption key derived from the current key and the unique session ID.

When encrypted credentials are received back to the client, keys from the rotating key store are used to attempt to validate the credentials. If the user credentials can not be validated, a user is again presented with a login page.

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